

International Proceedings

2019 = 2562 : (Oct 2018-Sep 2019) 26 titles

1. Chantrasuwan, P., Wiriya, N., Kaewmala, S., Pongha, S., Limphirat, W., Nash, J., Srilomsak, S. and Meethong, M. (2018). [Electrochemical Property Investigation of Cobalt Doped LiFePO₄/C During Chargedischarge by an In-Situ X-ray Near Edge Structure Technique](#). In *The 4th International Conference on Industrial, Mechanical, Electrical, and Chemical Engineering. 9-11 October 2018, Indonesia*.
2. Chanwattana, T., Klysubun, P., Pulampong, T. and Sudmuang, P. (2019). [Design and Optimization of Full Energy Injector Linac for Siam Photon Source II](#). In *The 10th International Particle Accelerator Conference (IPAC2019)*. 19 - 24 May, 2019, Melbourne, Australia.
3. Hariyanto, Y. A., Taufiq, A., Sunaryono, Mufti, N., Soontaranon, S. and Kamonsutthipaijit, N. (2018). [Study on Structural Characters of Nano-sized Hydroxyapatite Prepared from Limestone](#). In *IOP Conference Series: Materials Science and Engineering 515 (2019): 012020./ International Conference on Condensed Matter and Advanced Materials (IC2MAM 2018), 5 September 2018, Universitas Negeri Malang, Indonesia*.
4. Hidayat, M. F., Sunaryono, Sujito, Mufti, N. and Latifah, E. (2018). [Study on Distribution of Magnetite \(Fe₃-xMnxO₄\) Filler in Fe₃-xMnxO₄-PEG/PVA/PVP Magnetic Hydrogel by Using Twolognormal Function Analysis](#). In *IOP Conference Series: Materials Science and Engineering 515 (2019): 012024./ International Conference on Condensed Matter and Advanced Materials (IC2MAM 2018), 5 September 2018, Universitas Negeri Malang, Indonesia*.
5. Jampreecha, T., Khajonrit, J., Kidkhunthod, P., Meevasana, W. and Maensiri, S. (2018). [Studies on Structural Characterization and Electrical Properties of Cudoped BiFeO₃ Thin Films](#). In *Siam Physics Congress 2018 (SPC 2018). May 21-23, 2018, Phitsanulok, Thailand., Journal of Physics: Conference Series 1144 (2018): 012155*.
6. Janphuang, P., Laebua, M., Sriphung, C., Taweewat, P., Sirichalarmkul, A., Sukjantha, K., Promsawat, N., Leuasongnoen, P., Suphachiaraphan, S., Phimol, K., Isarakorn, D. and Tancharakorn, S. (2018). [Polymer Based Microneedle Patch Fabricated using Microinjection Moulding](#). In *The 4th International Conference on Engineering, Applied Sciences, and Technology. July 4-4, 2018, Phuket, Thailand., MATEC Web of Conferences 192 (2018): 01039*.
7. Juntong, N. and Phimsen, T. (2019). [Utilizing the High Shunt Impedance TM020-Mode Cavity in the Double RF Systems for the Storage Ring of the Thailand New Light Source](#). In *The 10th International Particle Accelerator Conference (IPAC2019)*. 19 - 24 May, 2019, Melbourne, Australia.
8. Kholifah, M. N., Sunaryono, Mufti, N., Zulaikhah, S. and Soontaranon, S. (2018). [Nanostructural Properties of Fe₃-xZnxO₄-PEG/Carboxymethyl Cellulose/Polyvinyl Alcohol Magnetic Hydrogel by Using SAXS](#). In *IOP Conference Series: Materials Science and Engineering 515 (2019): 012024./ International Conference on Condensed Matter and Advanced Materials (IC2MAM 2018), 5 September 2018, Universitas Negeri Malang, Indonesia*.
9. Klaiphet, K., Saisopa, T., Pokapanich, W., Tangsukworakhun, S., Songsiriritthigul, C., Saiyasombat, C., Ceolin, D. and Songsiriritthigul, P. (2018). [Structural Study of Cu\(II\):Glycine Solution by X-ray Absorption Spectroscopy](#). In *Siam Physics Congress 2018 (SPC 2018). May 21-23, 2018, Phitsanulok, Thailand., Journal of Physics: Conference Series 1144 (2018): 012063*.
10. Listanti, A., Taufiq, A., Hidayat, A., Sunaryono, Hidayat, N., Susanto, H. and Soontaranon, S. (2018). [Synthesis, Structural and Toxicity Characters of Nano-sized Titanium Dioxide/Magnetite Nanoparticles](#). In *IOP Conference Series: Materials Science and Engineering 515 (2019): 012024./ International Conference on Condensed Matter and Advanced Materials (IC2MAM 2018), 5 September 2018, Universitas Negeri Malang, Indonesia*.
11. Lomon, J., Chaibabin, P., Saisopa, T., Seawsakul, K., Saowiang, N., Promsakha, K. Poolcharuansin, P., Pasaja, N., Chingsungnoen, A., Supruangnet, R., Chanlek, N., Nakajima, H. and Songsiriritthigul, P. (2018). [XPS and XAS Preliminary Studies of Diamond-Like Carbon Films Prepared by HiPIMS](#)

- Technique. In *Siam Physics Congress 2018 (SPC 2018)*. May 21-23, 2018, Phitsanulok, Thailand., *Journal of Physics: Conference Series* 1144 (2018): 012048.
12. Muyasaroh, A. F., Latif, C., Lapboonruang, S., Firdausi, A., Mardiana, D. and Pratapa, S. (2018). [X-ray Diffraction \(XRD\) and X-ray Absorption Near Edge Spectroscopy \(XANES\) Analyses of LiFe_{1-x}Cu_xPO₄ Powders](#). In *IOP Conference Series: Materials Science and Engineering* 515 (2019): 012024./ *International Conference on Condensed Matter and Advanced Materials (IC2MAM 2018)*, 5 September 2018, Universitas Negeri Malang, Indonesia.
 13. Phimsen, T., Juntong, N. and Sudmuang, P. (2019). [Improvement of Touschek Lifetime by Higher Harmonic RF Cavity in the SPS Storage Ring](#). In *The 10th International Particle Accelerator Conference (IPAC2019)*. 19 - 24 May, 2019, Melbourne, Australia.
 14. Phimsen, T., Juntong, N., Chaichuay, S., Prawanta, S., Sunwong, P., Sudmuang, P. and Klysubun, P. (2019). [Conceptual Design of Vacuum Chamber for SPS-II Storage Ring](#). In *The 10th International Particle Accelerator Conference (IPAC2019)*. 19 - 24 May, 2019, Melbourne, Australia.
 15. Prawanta, S., Sunwong, P., Boonwanna, B., Sooksrimuang, V., Kwankasem, S., Pongampai, S., Sudmuang, P. and Klysubun, P. (2019). [Design and Construction of Sextupole Magnet Prototype for Siam Photon Source II Project](#). In *The 10th International Particle Accelerator Conference (IPAC2019)*. 19 - 24 May, 2019, Melbourne, Australia.
 16. Rujanakraikarn, R., Dhammatong, C. and Phacheerak, W. (2018). [Design and Implementation of Stepper Motor Control of The Linac High power RF System Based on FPGA](#). In *The 12th International Workshop on Emerging Technologies and Scientific Facilities Controls (PCaPAC2018)*. Oct 16-19, 2018, Hsinchu, Taiwan.
 17. Rujanakraikarn, R., Koonpong, P. and Tesprasitte, S. (2018). [Collimator Motion Control System Upgrade for Medical linear Accelerator Project at SLRI](#). In *The 12th International Workshop on Emerging Technologies and Scientific Facilities Controls (PCaPAC2018)*. Oct 16-19, 2018, Hsinchu, Taiwan.
 18. Phlayrahan, A., Monarumit, N., Boonmee, C., Satitkune, S. and Wathanakul, P. (2018). [Fe Oxidation State in Heat-Treated Basaltic Blue Sapphire Samples and its Implication to the 3309 cm⁻¹-series Peaks in Infrared Absorption Spectra](#). In *Siam Physics Congress 2018 (SPC 2018)*. May 21-22, 2018, Phitsanulok, Thailand., *Journal of Physics: Conference Series* 1144 (2018): 012057.
 19. Sarifudin, A., Soontaranon, S., Rugmai, S. and Tongta, S. (2018). [Effect of Storage Humidity on the Structural, Morphological Properties and Water Adsorption Capacity of Ethanol-Treated Starch](#). In *The 4th International Symposium on Applied Chemistry (ISAC 2018)*. November 1-2, 2018, Indonesia., *AIP Conference Proceedings* 2024 (2018): 020055.
 20. Sholichah, E., Nugroho, P. and Purwono, B. (2018). [Preparation and Characterization of Active Film Made from Arrowroot Starch/PVA Film and Isolated Quercetin from Shallot \(*Allium cepa* L. var, *aggregatum*\)](#). In *AIP Conference Proceedings* 2024 (2018): 020013/ *The 4th International Symposium on Applied Chemistry (ISAC 2018)*. November 1-2, 2018, Indonesia.
 21. Sripukdee, M., Songsiriritthigul, C., Mothong, N., Seawsakul, K., Saisopa, T., Horprathum, M. and Songsiriritthigul, P.. (2018). [Grazing Incidence X-Ray Diffraction using Synchrotron Light at SLRI](#). In *Siam Physics Congress 2018 (SPC 2018)*. May 21-23, 2018, Phitsanulok, Thailand., *Journal of Physics: Conference Series* 1144 (2018): 012052.
 22. Sunaryono, Saputra, K., Hidayat, A., Yogihati, C. I., Wicaksono, S. T., Hidayat, N., Hidayat, S. and Soontaranon, S. (2018). [Magneto-Thermal Effect in Mn_{0.25}Fe_{2.75}O₄-PEG Nanoparticles and Their Potential as Hyperthermia Therapy](#). In *IOP Conference Series: Materials Science and Engineering* 515 (2019): 012024./ *International Conference on Condensed Matter and Advanced Materials (IC2MAM 2018)*, 5 September 2018, Universitas Negeri Malang, Indonesia.
 23. Sunwong, P., Prawanta, S., Phimsen, T., Sudmuang, P. and Klysubun, P. (2019). [Magnet Design for Siam Photon Source II](#). In *The 10th International Particle Accelerator Conference (IPAC2019)*. 19 - 24 May, 2019, Melbourne, Australia.

24. Wisetrinthong, C., Pinitsoontorn, S. Kidkhunthod, P. and Wongsaprom, K. (2018). [Thermal Decomposition Synthesis and Magnetic Properties of Crystalline Zinc Oxide Powders](#). In */Siam Physics Congress 2018 (SPC 2018)*. May 21-23, 2018, Phitsanulok, Thailand., *Journal of Physics: Conference Series* 1144 (2018): 012078.
25. Yuliantika, D., Taufiq, A., Hidayat, A., Sunaryono, Hidayat, N. and Soontaranon, S. (2018). [Exploring Structural Properties of Cobalt Ferrite Nanoparticles from Natural Sand](#). In *IOP Conference Series: Materials Science and Engineering* 515 (2019): 012024./ *International Conference on Condensed Matter and Advanced Materials (IC2MAM 2018)*, 5 September 2018, Universitas Negeri Malang, Indonesia
26. Zelenska, K., Gnatyuk, V., Mekprasart, W., Pecharapa, W. and Nakajima, H. (2018). [Synchrotron Radiation X-ray Photoelectron Spectroscopic Study of CdTe-in Structures Formed by Laser-Induced Doping Technique](#). In *The 2nd International Conference on Science and Technology of Emerging Materials (STEMa 2018)*. July 18-20, 2018, Chonburi, Thailand., *AIP Conference Proceedings* 2010 (2018): 020011.

2018 = 2561 (Oct 2017 – Sep 2018) 10 articles

1. Juntong, N., Kittimanapun, K. and Sunwong, P. (2018). [The New 118 MHz Cavity for RF Development Activities of the RF for Accelerator Laboratory at SLRI](#). In *The 9th International Particle Accelerator Conference (IPAC2018)*. Apr 29 - May 4, 2018, Vancouver, Canada.
2. Juntong, N., Chanwattana, T., Kittimanapun, K., Pulampong, T., and Sunwong, P. (2018). [Conceptual Design of the RF System for the Storage Ring and LINAC of the New Light Source in Thailand](#). In *The 9th International Particle Accelerator Conference (IPAC2018)*. Apr 29 - May 4, 2018, Vancouver, Canada.
3. Kittimanapun, K., Juntong, N., Dhammatong, C., Phacheerak, W. and Phanak, M. (2018). [Development of a Pre-Injector Test Bench for Future SLRI Light Source](#). In *The 9th International Particle Accelerator Conference (IPAC2018)*. Apr 29 - May 4, 2018, Vancouver, Canada.
4. Kittimanapun, K., Juntong, N., Dhammatong, C., Phacheerak, W. and Phanak, M. (2018). [Low Emittance Thermionic Electron Gun at SLRI](#). In *The 9th International Particle Accelerator Conference (IPAC2018)*. Apr 29 - May 4, 2018, Vancouver, Canada.
5. Kittimanapun, K., Chanlek, N., Laoiamnongwong, N., and Lakrathok, A. (2018). [Low Intensity Electron Beam Measurement at SLRI Beam Test Facility](#). In *The 9th International Particle Accelerator Conference (IPAC2018)*. Apr 29 - May 4, 2018, Vancouver, Canada.
6. Koonpong, P. and Rujanakraikarn, R. (2017). [Timing System Using FPGA for Medical Linear Accelerator Prototype at SLRI](#). In *The International Conference on Accelerator and Large Experimental Physics Control Systems (ICALEPCS 2017)*. Oct 8-13, 2017, Barcelona, Spain. p. 589-592.
7. Rujanakraikarn, R. (2017). [FPGA-Based Pulsed RF Phase and Amplitude Detector at SLRI](#). In *The International Conference on Accelerator and Large Experimental Physics Control Systems (ICALEPCS 2017)*. Oct 8-13, 2017, Barcelona, Spain. p. 557-561.
8. Rujanakraikarn, R. and Koonpong, P. (2017). [FPGA-Based Motion Control System for Medical Linear Accelerator Development at SLRI](#). In *The International Conference on Accelerator and Large Experimental Physics Control Systems (ICALEPCS 2017)*. Oct 8-13, 2017, Barcelona, Spain. p. 562-565.
9. Sunwong, P., Boonwanna, B., Chaichuay, S., Klysubun, P., Kwankasem, A., Preecha, C. and Sooksri-muang, V.. (2018). [Design and Fabrication of a Combined Function Magnet Prototype for Siam Photon Source](#). In *The 9th International Particle Accelerator Conference (IPAC2018)*. Apr 29 - May 4, 2018, Vancouver, Canada.
10. Tohsan, A., Joomcom, S. and Limphirat, W. (2017). [Structural Evolution of Sulfidic Linkages in Natural Rubber Latex Medical Gloves Revealed by X-Ray Near Edge Absorption Structure](#). In *The 10th Thailand International Metallurgy Conference (TIMETC 2017)*, Mar 30-31, 2017, Bangkok, Thailand. *Materials Today: Proceedings* 5 (2018) 9584–9589.

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2. Juntong, N., Boonsuya, S., Cheedket, S., Dhammatong, Ch., Phacheerak, W., Krainara, S., Rujanakraikarn, R. and Suradet, N. (2017). [Commisioning of the SLRI Storage Ring Second RF System](#). In *The 8th International Particle Accelerator Conference (IPAC 2017)*. May 14-19, 2017, Copenhagen, Denmark.
3. Juntong, N., Dhammatong, Ch., Sudmuang, P. and Suradet, N. (2017). [Six Months of Operation of the New RF Cavity System of SLRI](#). In *The 8th International Particle Accelerator Conference (IPAC 2017)*. May 14-19, 2017, Copenhagen, Denmark.
4. Kittimanapun, K., Chanlek, N., klysubun, P., Krainara, S. and Supajeerapan, S. (2017). [Improvement of Electron intensity Reduction System at SLRI Beam Test Facility](#). In *The 8th International Particle Accelerator Conference (IPAC 2017)*. May 14-19, 2017, Copenhagen, Denmark.
5. Klysubun, P., Pulampong, T., Sudmuang, P. (2017). [Design and Optimisation of SPS-II Storage Ring](#). In *The 8th International Particle Accelerator Conference (IPAC 2017)*. May 14-19, 2017, Copenhagen, Denmark.
6. Klysubun, P., Boonsuya, S., Juntong, N., Kittimanapun, K., Kongtawong, S., Krainara, S., Kwankasem, A., Pulampong, T., Sudmuang, P. and Suradet, N. (2017). [Siam Photon Source: Present Machine Status and Future Upgrades](#). In *The 8th International Particle Accelerator Conference (IPAC 2017)*. May 14-19, 2017, Copenhagen, Denmark.
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8. Nugraheni, A. Y., Jayanti, D. N., Kurniasari, Soontaranon, S., Putra, E. G. R. and Darminto. (2016). [Structural Analysis on Reduced Graphene Oxide Prepared from Old Coconut Shell by Synchrotron X-Ray Scattering](#). In *The 3rd International Conference on Functional Materials Science 2016 (ICFMS 2016)*. October 19-20, 2016, Bali, Indonesia.
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10. Pulampong, T., Klysubun, P., Kongtawong, S., Krainara, S. and Sudmuang, P. (2017). [Online Optimisation Applications at SPS](#). In *The 8th International Particle Accelerator Conference (IPAC 2017)*. May 14-19, 2017, Copenhagen, Denmark.
11. Pulampong, T., Klysubun, P., Sudmuang, P. and Sunwong, P. (2017). [Study on Injection with Pulsed Multipole Magnet for SPS Storage Ring](#). In *The 8th International Particle Accelerator Conference (IPAC 2017)*. May 14-19, 2017, Copenhagen, Denmark.
12. Sudmuang, P., Junthong, N., Pulumpong, T., Suradet, N. and Klysubun, P. (2017). [Beam Lifetime Studies for SPS Storage Ring](#). In *The 8th International Particle Accelerator Conference (IPAC 2017)*. May 14-19, 2017, Copenhagen, Denmark.
13. Won-in, K., Tancharakorn, S., and Dararutana, P. ["Microanalysis Study on Ancient Wiangkalong Pottery"](#) *Journal of Physics: Conference Series* 901 (2017): 012024. Siam Physics Congress 2017 (SPC 2017). 24-26 May 2017, Rayong, Thailand.

2016 = 2559 (Oct 2015 – Sep 2016) 9 articles

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2. Kittimanapun, K., Chanlek, N., Juntong, N., Cheedket, S., Klysubun, P., Krainara, S., Sittisard, K. and Supajeerapan, S. (2016). [SLRI Beam Test Facility Development Project](#). In *The 7th International Particle Accelerator Conference (IPAC 2016)*. May 8-13, 2016, BEXCO, Busan Korea.
3. Krainara, S., Sudmuang, P., Sunwong, P., Pulampong, T., Kongtawong, S. and Klysubun, P. (2016). [Analysis of Nonlinear Effects of IDS at the SPS Storage Ring](#). In *The 7th International Particle Accelerator Conference (IPAC 2016)*. May 8-13, 2016, BEXCO, Busan Korea.
4. Klysubun, P., Klinkhieo, S., Kongtawong, S., Krainara, S., Pulampong, T., Sudmuang, P. and Suradet, N. (2016). [Beam Diagnostics at Siam Photon Source](#). In *The 5th International Beam Instrumentation Conference (IBIC 2016)*. September 11-15, 2016, Barcelona, Spain.
5. Juntong, N. and Pharaphan, K. (2016). [The Optimized X-Ray Target of Electron Linear Accelerator for Radiotherapy](#). In *The 7th International Particle Accelerator Conference (IPAC 2016)*. May 8-13, 2016, BEXCO, Busan Korea.
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8. Sunaryono, Taufiq, A., Mufti, N., Hidayat, N., Rugmai, S., Soontaranon, S., Putra, E. G. R. and Darminto. (2016). [Analysis of Distribution of Polyvinyl Alcohol Hydrogel Nanocrystalline by using SAXS Synchrotron](#). In *The 4th International Conference on Advanced Materials Science and Technology (ICAMST 2016)*. Sep 29-30, 2016, Graha Cakrawala UM, Indonesia.
9. Sunwong, P., Sudmuang, P., Pulampong, T., Krainara, S., Kongtawong, S. and Klysubun, P. (2016). [Minimization of Nonlinear Effects of Insertion Devices at SPS Storage Ring](#). In *The 7th International Particle Accelerator Conference (IPAC 2016)*. May 8-13, 2016, BEXCO, Busan Korea.

2015 = 2558 (Oct 2014 – Sep 2015) 11 articles

1. Chaichuay, S., Phanak, M., Sophon, M., Srichan, S., Bumrungkoh, D. and Duangnil, S. (2014). [Design, Construction, Assembly and Vacuum Test of X-Ray Beamline Front End Chamber at SLRI](#). In *Mechanical Engineering Design of Synchrotron Radiation Equipment and Instrumentation (MEDSI 2014)*, October 20-24, 2014, Melbourne, Australia.
2. Choknud, S., Songsiriritthigul, C. and Chumnarnsilpa, S. (2015). [The Structural Study of the c-terminal Half of Gelsolin](#). In *The 10th international Symposium of the Protein Society of Thailand*, July 15-17, 2015, Bangkok, Thailand : 167-172.
3. Katueangngan, K., Tulyapitak, T., Saetung, A., Soontaranon, S. and Nithi-uthai, N. (2015). ["Renewable Interfacial Modifier for Silica Filled Natural Rubber Compound"](#) In *5th International Conference on Recent Advances in Materials, Minerals & Environment (RAMM) & 2nd*

International Postgraduate Conference on Materials, Mineral and Polymer (MAMIP). August 4-6, 2015 Penang, Malaysia. *Procedia Chemistry* 19 (2016): 447-454.

4. Krainara, S., Sudmuang, P., Suradet, N., Taewphet, S., Kongtawong, S., Hoyes, G. G. and Klysubun, P. (2015). [Observation of Beam Loss Signal at the SPS Storage Ring](#). In *4th International Beam Instrumentation Conference (IBIC2015)*. September 13-17, 2015, Melbourne, Australia.
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6. Kulawong, S. and Chaodamrongsakul, J. (2014). [First Solvation shell of Polymer Electrolytes: PEO4:KSCN](#). In *6th International Science, Social Sciences, Engineering and Energy Conference (I-SEEC 2014)*, December 17-19, 2014, Prajaktra Design Hotel, Udon Thani, Thailand.
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9. Suradet, N., Thamtong, C., Preecha, C., Klinkhieo, S. and Klysubun, P. (2014). [Web Based Machine Status Display for Siam Photon Source](#). In *Proceedings of the 10th International Workshop on Personal Computers and Particle Accelerator Controls (PCaPAC2014)*. October 14-17, 2014, The Convention Center Karlsruhe, Germany.
10. Suradet, N., Krainara, S., Sudmuang, P., Taewphet, S., Hoyes, G. G. and Klysubun, P. (2015). [Improvement of the Siam Photon Source Beam Loss Monitor System](#). In *International Beam Instrumentation Conference (IBIC2015)*. September 13-17, 2015, Melbourne, Australia.
11. Wattanawikkam, C. and Pecharapa, W. (2015). [Optical, Dielectric and Photocatalytic Properties of Perovskite ZnTiO₃ Nanoparticle Synthesized by Sonochemical Process](#). In *2015 Joint IEEE International Symposium on Applications of Ferroelectric (ISAF), International Symposium on Integrated Functionalities (ISIF), and Piezoresponse Force Microscopy Workshop (PFM) (ISAF-ISIF-PFM 2015)*. May 24-27, 2015, Singapore.

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5. Sudmuang, P., Krainara, S., Kongtawong, S., Tong-on, A., Suradet, N., Klinkhieo, S. and Klysubun, P. (2014). [Commissioning of the 2.4T Multipole Wiggler and the 6.5T Superconducting Wavelength Shifter at Siam Photon Source](#). In *The 5th International Particle Accelerator Conference (IPAC 2014)*. June 15-20, 2014, Dresden, Germany.

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